

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-2 and 4-5 without prejudice or disclaimer of their underlying subject matter.

Please amend the claims as follows.

1-2. (canceled)

3. (currently amended) ~~The semiconductor testing apparatus according to claim 1~~ A semiconductor testing apparatus wherein an input signal of a test pattern is supplied to a semiconductor device, and an output signal obtained from said semiconductor device is compared with a prescribed expected value to conduct a test, said apparatus comprising:

test pattern memory means adapted for storing test pattern data of the test pattern, managing the test pattern data in accordance with addresses, and outputting the test pattern specified by any address;

test pattern generation means for generating a test pattern signal on the basis of the test pattern outputted from said test pattern memory means; and

control means for controlling said test pattern memory means and said test pattern generation means in such a manner that the test pattern signal based on the test pattern data of a desired address can be generated at a predetermined timing conforming to the set information,

wherein said control means controls the timing of generation of the test pattern in such a manner that the cycle period rate to execute the test pattern of the desired address becomes a cycle period narrower than a predetermined rate.

4-5. (canceled)

Please add the following new claims.

6. (new) A semiconductor testing apparatus comprising:

control means adapted to generate a timing signal and an address specifying signal, said timing signal having a test pattern cycle period, the duration of said test pattern cycle period being variable, the rate of modification for said address specifying signal being said test pattern cycle period;

test pattern memory means adapted to store a first test pattern, said first test pattern being outputted from said test pattern memory means in response to said address specifying signal, the rate of output for said first test pattern being said test pattern cycle period; and

test pattern generation means adapted to generate an input test pattern signal by combining said first test pattern with said timing signal, a semiconductor device under test receiving said input test pattern signal.

7. (new) The semiconductor testing apparatus according to claim 6, further comprising:

decision means adapted to detect a failure within said semiconductor device by comparing an output test pattern signal received from said semiconductor device under test with said first test pattern.

8. (new) The semiconductor testing apparatus according to claim 6, wherein said control means is adapted to vary said duration of said test pattern cycle period.

9. (new) The semiconductor testing apparatus according to claim 6, wherein said first test pattern is located at an address within said test pattern memory means.

10. (new) The semiconductor testing apparatus according to claim 6, wherein said semiconductor device is tested during said test pattern cycle period.

11. (new) The semiconductor testing apparatus according to claim 6, wherein said control means receiving set information to generate said timing signal and said address specifying signal, said set information establishing said duration of said test pattern cycle period.

12. (new) The semiconductor testing apparatus according to claim 11, wherein said control means controls the timing of generation of said first test pattern on the basis of said set information.

13. (new) The semiconductor testing apparatus according to claim 11, wherein said test pattern cycle period is narrowed by varying said set information.

14. (new) The semiconductor testing apparatus according to claim 11, wherein said test pattern cycle period is widened by varying said set information.

15. (new) The semiconductor testing apparatus according to claim 6, wherein said test pattern memory means stores a plurality of test patterns, said plurality of test patterns being outputted from said test pattern memory means in response to said address specifying signal, the rate of output for said plurality of test patterns being said test pattern cycle period.

16. (new) The semiconductor testing apparatus according to claim 15, wherein said duration of said test pattern cycle period only for said first test pattern is narrowed.

17. (new) The semiconductor testing apparatus according to claim 15, wherein said duration of said test pattern cycle period for said first test pattern and for said plurality of test patterns is narrowed.

18. (new) The semiconductor testing apparatus according to claim 15, wherein said duration of said test pattern cycle period for said plurality of test patterns is narrowed successively from the top pattern address throughout the entire test pattern in order.

19. (new) The semiconductor testing apparatus according to claim 15, wherein said duration of said test pattern cycle period only for said first test pattern is widened.

20. (new) The semiconductor testing apparatus according to claim 15, wherein said duration of said test pattern cycle period for said first test pattern and for said plurality of test patterns is widened.

21. (new) The semiconductor testing apparatus according to claim 15, wherein said duration of said test pattern cycle period for said plurality of test patterns is widened successively from the top pattern address throughout the entire test pattern in order.

22. (new) A semiconductor testing method for conducting a test of a semiconductor device comprising the steps of:

generating a timing signal having a test pattern cycle period;

varying the duration of said test pattern cycle period;

generating an address specifying signal, the rate of modification for said address specifying signal being said test pattern cycle period;

storing a first test pattern within test pattern memory means;

outputting said first test pattern from within test pattern memory means in response to said address specifying signal, the rate of output for said first test pattern being said test pattern cycle period;

combining said first test pattern with said timing signal to generate an input test pattern signal, a semiconductor device under test receiving said input test pattern signal; and

comparing an output test pattern signal from said semiconductor device under test with said first test pattern.

23. (new) The semiconductor testing method according to claim 22, further comprising the steps of:

receiving set information to generate said timing signal and said address specifying signal; and

using said set information to establish said duration of said test pattern cycle period.

24. (new) The semiconductor testing method according to claim 23, wherein said test pattern cycle period is narrowed by varying said set information.

25. (new) The semiconductor testing method according to claim 23, wherein said test pattern cycle period is widened by varying said set information.

26. (new) The semiconductor testing method according to claim 22, wherein said test pattern memory means stores a plurality of test patterns, said plurality of test patterns being outputted from said test pattern memory means in response to said address specifying signal, the rate of output for said plurality of test patterns being said test pattern cycle period.

27. (new) The semiconductor testing method according to claim 22, wherein said duration of said test pattern cycle period only for said first test pattern is narrowed.

28. (new) The semiconductor testing method according to claim 22, wherein said duration of said test pattern cycle period for said first test pattern and for said plurality of test patterns is narrowed.

29. (new) The semiconductor testing method according to claim 22, wherein said duration of said test pattern cycle period for said plurality of test patterns is narrowed successively from the top pattern address throughout the entire test pattern in order.

30. (new) The semiconductor testing method according to claim 22, wherein said duration of said test pattern cycle period only for said first test pattern is widened.

31. (new) The semiconductor testing method according to claim 22, wherein said duration of said test pattern cycle period for said first test pattern and for said plurality of test patterns is widened.

32. (new) The semiconductor testing method according to claim 22, wherein said duration of said test pattern cycle period for said plurality of test patterns is widened successively from the top pattern address throughout the entire test pattern in order.